



PATENT  
Customer No. 22,852  
Attorney Docket No. 9140.0014-00

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: )  
)  
DEMARAY, Richard E. et al. ) Group Art Unit: 1731  
)  
Application No.: 09/903,081 ) Examiner: HOFFMAN, John M.  
)  
Filed: July 10, 2001 ) Confirmation No.: 1225  
)  
For: AS-DEPOSITED PLANAR OPTICAL )  
WAVEGUIDES WITH LOW SCATTERING )  
LOSS AND METHODS FOR THEIR )  
MANUFACTURE )

**MAIL STOP RCE**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. § 1.97(b)**

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicants bring to the attention of the Examiner the documents on the attached listing. This Information Disclosure Statement is being filed before the mailing date of a first Office Action after the filing of a Request for Continued Examination in the above-referenced application.

Copies of the listed foreign and non-patent literature documents are attached. Copies of the U.S. patents and patent publications are not enclosed.

Applicants respectfully request that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and Applicants determine that the cited documents do not constitute "prior art" under United States law, Applicants reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

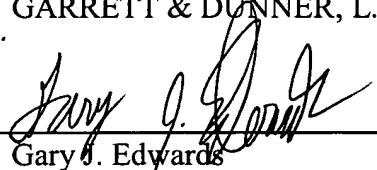
If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,  
GARRETT & DUNNER, L.L.P.

Dated: October 19, 2006

By: \_\_\_\_\_

  
Gary J. Edwards  
Reg. No. 41,008

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Complete if Known

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

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of

2

Application Number

09/903,081

Filing Date

July 10, 2001

First Named Inventor

DEMARAY, Richard E.

Art Unit

1731

Examiner Name

HOFFMAN, John M.

Attorney Docket Number

9140.0014-00

**U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS**

Examiner Initials	Cite No. <sup>1</sup>	Document Number	Issue or Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US 2001/0031122 A1	10-18-2001	Lackritz et al.	
		US 2003/0185266 A1	10-02-2003	Henrichs	
		US 2005/0183946 A1	08-25-2005	Pan et al.	
		US 2006/0057283 A1	03-16-2006	Zhang et al.	
		US 4,710,940	12-01-1987	Sipes, Jr.	
		US 4,785,459	11-15-1988	Baer	
		US 6,236,793 B1	05-22-2001	Lawrence et al.	
		US 6,288,835 B1	09-11-2001	Nilsson et al.	
		US 6,452,717 B1	09-17-2002	Endo	
		US 6,760,520 B1	07-06-2004	Medin et al.	
		US 6,884,327 B2	04-26-2005	Pan et al.	

**Note: Submission of copies of U.S. Patents and published U.S. Patent Applications is not required.**

**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		JP 7-224379 A	8/22/1995	Ulvac Japan Ltd		
		KR 2002-26187	4/6/2002	Hyundai Motor Co Ltd		Abstract
		WO 01/82297 A1	11/1/2001	Koninklijke Philips Electronics N.V.		

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation <sup>6</sup>
		AGRAWAL, G.P., in: Fiber-Optic Communication Systems, 2nd Edition, John Wiley & Sons, New York, pp. 361-399 and 415 (1997).	
		BORSELLA, E. et al., "Structural incorporation of silver in soda-lime glass by the ion-exchange process: A photoluminescence spectroscopy study," Applied Physics A 71:125-132 (2000).	
		BYER, R.L., "Nonlinear Optics and Solid-state Lasers: 2000," IEEE J. Selected Topics in Quantum Electronics 6(6):911-930 (2000).	

Examiner  
SignatureDate  
Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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IDS Form PTO/SB/08: Substitute for form 1449A/PTO			<b>Complete if Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			Application Number	09/903,081	
			Filing Date	July 10, 2001	
			First Named Inventor	DEMARAY, Richard E.	
			Art Unit	1731	
			Examiner Name	HOFFMAN, John M.	
			Attorney Docket Number	9140.0014-00	
Sheet	2	of	2		

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		COCORULLO, G. et al., "Amorphous silicon waveguides and light modulators for integrated photonics realized by low-temperature plasma-enhanced chemical-vapor deposition," Optics Lett. 21(24):2002-2004 (1996).	
		FRAZAO, O. et al., "EDFA Gain Flattening Using Long-Period Fibre Gratings Based on the Electric Arc Technique," Proc. London Comm. Symp. 2001, London, England, 3 pages (2001).	
		JOHNSON, J.E. et al., "Monolithically Integrated Semiconductor Optical Amplifier and Electroabsorption Modulator with Dual-Waveguide Spot-Size Converter Input," IEEE J. Selected Topics in Quantum Electronics 6(1):19-25 (2000).	
		KATO, K. & TOHMORI, Y., "PLC Hybrid Integration Technology & Its Application to Photonic Components," IEEE J. Selected Topics in Quantum Electronics 6(1):4-13 (2000).	
		MASUDA, H. & KAWAI, S., "Wide-band and gain-flattened hybrid fiber amplifier consisting of an EDFA and a multiwavelength pumped raman amplifier," IEEE Photonics Technology Lett. 11(6):647-649 (1999).	
		PAN, T. et al., "Planar Er3+-doped aluminosilicate waveguide amplifier with more than 10 dB gain across C-band," Optical Society of America, 3 pages (2000).	
		SNOEKS, E. et al., "Cooperative upconversion in erbium-implanted soda-lime silicate glass optical waveguides," J. Opt. Soc. Am. B 12(8):1468-1474 (1995).	
		STROHHOFER, C. & POLMAN, A. "Energy transfer to Er3+ in Ag ion-exchanged glass," FOM Institute for Atomic & Molecular Physics, 10 pages (2001).	
		TREICHEL, O. & KIRCHHOFF, V., "The influence of pulsed magnetron sputtering on topography & crystallinity of TiO2 films on glass," Surface & Coatings Technology 123:268-272 (2000).	
		Notice of Allowance mailed August 6, 2002, for US Patent No. 6,506,289 (Atty. Docket No. 09140.0002-01).	
		Notice of Allowance mailed March 25, 2004 for US Patent No. 6,827,826 (Atty. Docket No. 09140.0002-02).	
		Notice of Allowance issued on October 8, 2002, in U.S. Patent No. 6,533,907 (Atty. Docket No. 09140-0004-00).	
		Notice of Allowance issued on October 21, 2004, in U.S. Application No. 10/101,492 (Atty. Docket No. 09140-0015-00).	
		Response to Office Action filed February 17, 2006 in U.S. Application No. 11/100,856 (Atty. Docket No. 09140.0015-01).	
		Final Office Action mailed June 9, 2006 in U.S. Appl. No. 11/100,856 (Atty. Docket No. 09140.0015-01).	
		Response to Office Action filed September 11, 2006 in U.S. Application No. 11/100,856 (Atty. Docket No. 09140.0015-01.)	
		Response to Office Action filed June 12, 2006, in U.S. Appl. No. 10/101,863 (Atty. Docket No. 09140.0016-00).	
		Office Action mailed September 6, 2006, in U.S. Appl. No. 10/101,863 (Atty. Docket No. 09140.0016-00).	
		Office Action issued on March 23, 2006, in U.S. Application No. 10/650,461 (Atty. Docket No. 09140-0025-00).	
		Response to Office Action filed on July 24, 2006, in U.S. Application No. 10/650,461 (Atty. Docket No. 09140-0025-00).	
		Office Action dated September 22, 2006 from Korean Patent Office in Appl. No. 10-2005-7016055 (Atty. Docket No. 09140.0030-00202)	

Examiner Signature		Date Considered	
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